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Relevance scale **1** [Technique for automatically correcting words in text](#) 

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(6.23 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

2 [Computing curricula 2001](#) September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#) html(2.78 KB)**3** [Technical reports](#) 

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  pdf(5.28 MB)Additional Information: [full citation](#)

4 [Early user--system interaction for database selection in massive domain-specific online environments](#)



Jack G. Conrad, Joanne R. S. Claussen

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(845.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

5 [Efficient passage ranking for document databases](#)



Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: [pdf\(328.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, a strategy that can improve effectiveness and identify relevant material in documents that are too large for users to consider as a whole. However, ranking of passages can considerably increase retrieval costs. In this article we explore alternative query evalua ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

6 [Selected IR-Related Dissertation Abstracts](#)



February 1992 **ACM SIGIR Forum**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.24 MB\)](#) Additional Information: [full citation](#)

7 [Selected IR-Related Dissertation Abstracts](#)



March 1993 **ACM SIGIR Forum**, Volume 27 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.24 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, and abstract. Unless otherwise specified, paper or microform copies of dissertations may be ordered from University Microfilms Inter ...

8 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1**Publisher:** ACM PressFull text available: pdf(294.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

9 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04****Publisher:** ACM PressFull text available: pdf(18.15 MB) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

10 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 Multikey access methods based on superimposed coding techniques

R. Sacks-Davis, A. Kent, K. Ramamohanarao

November 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 4**Publisher:** ACM PressFull text available: pdf(3.71 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Both single-level and two-level indexed descriptor schemes for multikey retrieval are presented and compared. The descriptors are formed using superimposed coding techniques and stored using a bit-inversion technique. A fast-batch insertion algorithm for which the cost of forming the bit-inverted file is less than one disk access per record is presented. For large data files, it is shown that the two-level implementation is generally

more efficient for queries with a small number of matching ...

12 Burst tries: a fast, efficient data structure for string keys

 April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available:  pdf(324.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such as counters. We propose a new data structure, the burst trie, that has significant advantages over existing options for such applications: it uses about the same memory as a binary search tree; it is as fast as a trie; and, while not as fast as a ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

13 Information systems security design methods: implications for information systems development

 Richard Baskerville
December 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  pdf(3.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The security of information systems is a serious issue because computer abuse is increasing. It is important, therefore, that systems analysts and designers develop expertise in methods for specifying information systems security. The characteristics found in three generations of general information system design methods provide a framework for comparing and understanding current security design methods. These methods include approaches that use checklists of controls, divide functional req ...

Keywords: checklists, control, integrity, risk analysis, safety, structured systems analysis and design, system modeling

14 Digital libraries and cyberinfrastructure track: creating information representations for the humanities (part 1): Finding a catalog: generating analytical catalog records from well-structured digital texts

 David Mimno, Alison Jones, Gregory Crane
June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(210.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the criticisms library users often make of catalogs is that they rarely include information below the bibliographic level. It is generally impossible to search a catalog for the titles and subjects of particular chapters or volumes. There has been no way to add this information to catalog records without exponentially increasing the workload of catalogers. At the same time, well-structured full-text XML transcriptions of printed works are becoming increasingly available. This paper descri ...

Keywords: analytical cataloging, information extraction, library automation

15 Self-indexing inverted files for fast text retrieval



Alistair Moffat, Justin Zobel

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available: pdf(484.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Query-processing costs on large text databases are dominated by the need to retrieve and scan the inverted list of each query term. Retrieval time for inverted lists can be greatly reduced by the use of compression, but this adds to the CPU time required. Here we show that the CPU component of query response time for conjunctive Boolean queries and for informal ranked queries can be similarly reduced, at little cost in terms of storage, by the inclusion of an internal index in each compress ...

16 Link and channel measurement: A simple mechanism for capturing and replaying



wireless channels

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

17 The paraphrase search assistant: terminological feedback for iterative information



seeking

Peter G. Anick, Suresh Tipirneni

August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(116.89 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: data visualization, query reformulation, terminological feedback

18 Level set and PDE methods for computer graphics



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.07 MB)

Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types

of differential equations, e.g. the level set eq ...

19 Enhanced hypertext categorization using hyperlinks



Soumen Chakrabarti, Byron Dom, Piotr Indyk

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A major challenge in indexing unstructured hypertext databases is to automatically extract meta-data that enables structured search using topic taxonomies, circumvents keyword ambiguity, and improves the quality of search and profile-based routing and filtering. Therefore, an accurate classifier is an essential component of a hypertext database. Hyperlinks pose new problems not addressed in the extensive text classification literature. Links clearly contain high-quality semantic clues that ...

20 Information retrieval session 8: efficiency: Online duplicate document detection:



signature reliability in a dynamic retrieval environment

Jack G. Conrad, Xi S. Guo, Cindy P. Schriber

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(215.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As online document collections continue to expand, both on the Web and in proprietary environments, the need for duplicate detection becomes more critical. Few users wish to retrieve search results consisting of sets of duplicate documents, whether identical duplicates or close matches. Our goal in this work is to investigate the phenomenon and determine one or more approaches that minimize its impact on search results. Recent work has focused on using some form of signature to characterize a do ...

Keywords: data management, doc signatures, duplicate document detection

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Relevance scale **1** [ZBroker: a query routing broker for Z39.50 databases](#) Yong Lin, Jian Xu, Ee-Peng Lim, Wee-Keong NgNovember 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  [pdf\(1.15 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A query routing broker is a software agent that determines from a large set of accessing information sources the ones most relevant to a user's information need. As the number of information sources on the Internet increases dramatically, future users will have to rely on query routing brokers to decide a small number of information sources to query without incurring too much query processing overheads. In this paper, we describe a query routing broker known as ZBroker developed for bibliog ...

2 [Harp: a distributed query system for legacy public libraries and structured databases](#) Ee-Peng Lim, Ying LuJuly 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(196.58 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The main purpose of a digital library is to facilitate users easy access to enormous amount of globally networked information. Typically, this information includes preexisting public library catalog data, digitized document collections, and other databases. In this article, we describe the distributed query system of a digital library prototype system known as HARP. In the HARP project, we have designed and implemented a distributed query processor and its query front-end to support integr ...

Keywords: Internet databases, digital libraries, interoperable databases**3** [User preferences when searching individual and integrated full-text databases](#) Soyeon ParkAugust 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Publisher: ACM Press

Full text available:  [pdf\(158.43 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: distributed information environment, human computer interaction, information retrieval, interface design

4 An integrated approach to documentation retrieval using a spires database



Suzanne Schluederberg

October 1988 **Proceedings of the 6th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available: pdf(553.02 KB) Additional Information: [full citation](#), [index terms](#)

5 Database theory, technology and applications (DTTA): Simplified access to



structured databases by adapting keyword search and database selection

Mohammad Hassan, Reda Alhajj, Mick J. Ridley, Ken Barker

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(219.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a tool that enables non-technical (naive) end-users to use free-form queries in exploring distributed relational databases with simple and direct technique, in a fashion similar to using search engines to search text files on the web. This allows web designers and database developers to publish their databases for web browsers exploring. The proposed approach can be used for both Internet and Intranet application areas. Our approach depends on identifying first databases that ...

Keywords: database selection, information retrieval, keyword search, relational databases

6 Document querying and transformation: Fast structural query with application to



chinese treebank sentence retrieval

Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: pdf(475.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In natural language processing a huge amount of structured data is constantly used for the extraction and presentation of grammatical structures in sentences. For example the Chinese Treebank corpus developed at the Institute of Information Science Academia Sinica Taiwan is a semantically annotated corpus that has been used to help parse and study Chinese sentences. In this setting users usually use structured tree patterns instead of keywords to query the corpus.

In this paper we pres ...

Keywords: XML, structural query, treebank

7 Office documents on a database kernel—filing, retrieval, and archiving



P. Zabback, H. B. Paul, U. Deppisch

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Volume 11 Issue 2-3

Publisher: ACM Press

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the main component of integrated office systems is the large central filing system. It efficiently stores, retrieves and searches office documents containing text, images, graphics, data and voice. We propose to implement a filing system on top of the Darmstadt database system (DASDBS), which is designed as a data management kernel for both standard and non-standard applications. This paper investigates the choice of appropriate storage structures for the filing system objects and th ...

8 An evaluation of retrieval effectiveness for a full-text document-retrieval system 

 David C. Blair, M. E. Maron
March 1985 **Communications of the ACM**, Volume 28 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An evaluation of a large, operational full-text document-retrieval system (containing roughly 350,000 pages of text) shows the system to be retrieving less than 20 percent of the documents relevant to a particular search. The findings are discussed in terms of the theory and practice of full-text document retrieval.

9 Interactive term suggestion for users of digital libraries: using subject thesauri and co-occurrence lists for information retrieval 

 Bruce R. Schatz, Eric H. Johnson, Pauline A. Cochrane, Hsinchun Chen
April 1996 **Proceedings of the first ACM international conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(974.58 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Selected IR-Related Dissertation Abstracts 

 May 1991 **ACM SIGIR Forum**, Volume 25 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.71 MB) Additional Information: [full citation](#), [abstract](#)

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

11 A clustered search algorithm incorporating arbitrary term dependencies 

 K. Lam, C. T. Yu
September 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(669.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The documents in a database are organized into clusters, where each cluster contains similar documents and a representative of these documents. A user query is compared with all the representatives of the clusters, and on the basis of such comparisons, those clusters having many close neighbors with respect to the query are selected for searching. This paper presents an estimation of the number of close neighbors in a cluster in relation to the given query. The estimation t ...

Keywords: Bahadur-Lazarsfeld expansion, clustered search, generating polynomial, term dependencies

12 ABSTRACTS (Chosen by G. Salton from recent issues of journals in the retrieval



Gerald Salton

April 1989 **ACM SIGIR Forum**, Volume 23 Issue 3-4

Publisher: ACM Press

Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#)



13 Design of an OPAC database to permit different subject searching accesses in a



multi-disciplines universities library catalogue database

Maristella Agosti, Maurizio Masotti

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: [pdf\(877.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This paper presents searching approaches and user interface capabilities of DUO, an Online Public Access Catalogue (OPAC) designed to permit the users of three Universities of the Northeast of Italy different subject searching accesses to the co-operative multi-disciplines library catalogue database. The co-operative catalogue database is managed by one of the software systems developed under the Italian national project for library automation: the SBN project. Since the SBN data ...

14 Multiple search engines in database merging



Ellen M. Voorhees, Richard M. Tong

July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Publisher: ACM Press

Full text available: [pdf\(1.52 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



15 On the encipherment of search trees and random access files



R. Bayer, J. K. Metzger

March 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The securing of information in indexed, random access files by means of privacy transformations must be considered as a problem distinct from that for sequential files. Not only must processing overhead due to encrypting be considered, but also threats to encipherment arising from updating and the file structure itself must be countered. A general encipherment scheme is proposed for files maintained in a paged structure in secondary storage. This is applied to the encipherment of indexes or ...

Keywords: B-trees, cryptography, encipherment, indexed sequential files, indexes, paging, privacy, privacy transformation, protection, random access files, search trees, security

16 A browser for bibliographic information retrieval, based on an application of lattice theory

Gert Schmeltz Pedersen

July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval****Publisher:** ACM PressFull text available: [pdf\(995.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An application of mathematical lattice theory, called relationship lattices, is utilized to attack problems of operational bibliographic information retrieval. The proposed solution offers an interface to the information searcher enabling operation in a world of concepts, authors, and document records and their relationships. This hides the complexities of query language and database structures, and it allows to use a personally preferred terminology and to browse, query and down ...

17 The design of a document database

Chris Clifton, Hector Garcia-Molina

January 2000 **Proceedings of the ACM conference on Document processing systems****Publisher:** ACM PressFull text available: [pdf\(758.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Generation and search of clustered files**

G. Salton, A. Wong

December 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 4**Publisher:** ACM PressFull text available: [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A classified, or clustered file is one where related, or similar records are grouped into classes, or clusters of items in such a way that all items within a cluster are jointly retrievable. Clustered files are easily adapted to broad and narrow search strategies, and simple file updating methods are available. An inexpensive file clustering method applicable to large files is given together with appropriate file search methods. An abstract model is then introduced to predict the retrieval ...

Keywords: automatic classification, cluster searching, clustered files, fast classification, file organization, probabilistic models

19 XRel: a path-based approach to storage and retrieval of XML documents using relational databasesAugust 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1**Publisher:** ACM PressFull text available: [pdf\(264.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article describes XRel, a novel approach for storage and retrieval of XML documents using relational databases. In this approach, an XML document is decomposed into nodes on the basis of its tree structure and stored in relational tables according to the node type, with path information from the root to each node. XRel enables us to store XML documents using a fixed relational schema without any information about DTDs and also to utilize indices such as the B+

Keywords: XML query, XPath, text markup, text tagging

20 Probabilistic and genetic algorithms in document retrieval

M. Gordon

October 1988 **Communications of the ACM**, Volume 31 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.27 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document retrieval systems are built to provide inquirers with computerized access to relevant documents. Such systems often miss many relevant documents while falsely identifying many non-relevant documents. Here, competing document descriptions are associated with a document and altered over time by a genetic algorithm according to the queries used and relevance judgments made during retrieval.

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Visualizing search results: some alternatives to query-document similarity](#)

 Lucy Terry Nowell, Robert K. France, Deborah Hix, Lenwood S. Heath, Edward A. Fox
August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  [pdf\(1.80 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Document Examiner: delivery interface for hypertext documents](#)

 Janet H. Walker
November 1987 **Proceeding of the ACM conference on Hypertext**

Publisher: ACM Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the user interface strategy of Document Examiner, a delivery interface for commercial hypertext documents. Unlike many hypertext interfaces, Document Examiner does not adopt the directed graph as its fundamental user-visible navigation model. Instead it offers context evaluation and content-based searching capabilities that are based on consideration of the strategies that people use in interacting with paper documents.

4

[Interactive term suggestion for users of digital libraries: using subject thesauri and co-](#)

 **occurrence lists for information retrieval**

Bruce R. Schatz, Eric H. Johnson, Pauline A. Cochrane, Hsinchun Chen

April 1996 **Proceedings of the first ACM international conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(974.58 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 **On the measurement of inter-linker consistency and retrieval effectiveness in hypertext databases** 

David Ellis, Jonathan Furner-Hines, Peter Willett

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

6 **Building searchable collections of enterprise speech data** 

 James W. Cooper, Mahesh Viswanathan, Donna Byron, Margaret Chan

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(356.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have applied speech recognition and text-mining technologies to a set of recorded outbound marketing calls and analyzed the results. Since speaker-independent speech recognition technology results in a significantly lower recognition rate than that found when the recognizer is trained for a particular speaker, we applied a number of post-processing algorithms to the output of the recognizer to render it suitable for the Textract text mining system. We indexed the call transcri ...

Keywords: document display, search, speech analysis, speech retrieval, text mining

7 **P1: "Yes, but does it scale?": practical considerations for database-driven information systems** 

 **systems**

John Russell

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available:  pdf(231.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper explores the process of designing and implementing a database-driven system of online documentation, and putting it live on the web for customers to use. Using real-life examples, it discusses practical considerations for balancing performance, scalability, and reliability.

Keywords: Oracle, automation, categorization, database, performance, reliability, scalability, web services

8 **Document adaptation: Supporting virtual documents in just-in-time hypermedia systems** 

Li Zhang, Michael Bieber, David Millard, Vincent Oria

**October 2004 Proceedings of the 2004 ACM symposium on Document engineering****Publisher:** ACM PressFull text available: [pdf\(707.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many analytical or computational applications especially legacy systems create documents and display screens in response to user queries "dynamically" or in "real time". These "virtual documents" do not exist in advance and thus hypermedia features must be generated "just in time" - automatically and dynamically. Additionally the hypermedia features may have to cause target documents to be generated or re-generated. This paper focuses on the specific challenges faced in hypermedia support for ...

Keywords: dynamic hypermedia functionality, dynamic regeneration, integration architecture, just-in-time hypermedia, re-identification, re-location, virtual documents

9 Record-boundary discovery in Web documents

D. W. Embley, Y. Jiang, Y.-K. Ng

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2**Publisher:** ACM PressFull text available: [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Extraction of information from unstructured or semistructured Web documents often requires a recognition and delimitation of records. (By "record" we mean a group of information relevant to some entity.) Without first chunking documents that contain multiple records according to record boundaries, extraction of record information will not likely succeed. In this paper we describe a heuristic approach to discovering record boundaries in Web documents. In our approach, we capture ...

10 The Logical Record Access Approach to Database Design

Toby J. Teorey, James P. Fry

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2**Publisher:** ACM PressFull text available: [pdf\(2.81 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**11 Special issue: AI in engineering**

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92**Publisher:** ACM PressFull text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

12 Application of OODB and SGML techniques in text database: an electronic dictionary**system**

Jian Zhang

March 1995 **ACM SIGMOD Record**, Volume 24 Issue 1**Publisher:** ACM PressFull text available: [pdf\(557.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

An electronic dictionary system (EDS) is developed with object-oriented database

techniques based on ObjectStore. The EDS is composed of two parts: the Database Building Program (DBP), and the Database Querying Program (DQP). DBP reads in a dictionary encoded in SGML tags, and builds a database composed of a collection of trees which holds dictionary entries, and several lists which contain items of various lexical categories. With text exchangeability introduced by the SGML, DBP is able to acco ...

Keywords: SGML, object-oriented databases, text database

13 [HyperFile: a data and query model for documents](#)

Chris Clifton, Hector Garcia-Molina, David Bloom

January 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(2.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Non-quantitative information such as documents and pictures pose interesting new problems in the database world. Traditional data models and query languages do not provide appropriate support for this information. Such data are typically stored in file systems, which do not provide the security, integrity, or query features of database management systems. The hypertext model has emerged as a good interface to this information; however, *finding* information using hypertext browsing does not ...

Keywords: hypertext, indexing, user interface

14 [The design of a document database](#)

 Chris Clifton, Hector Garcia-Molina

January 2000 **Proceedings of the ACM conference on Document processing systems**

Publisher: ACM Press

Full text available:  [pdf\(758.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 [Design of an OPAC database to permit different subject searching accesses in a](#)

[multi-disciplines universities library catalogue database](#)

 Maristella Agosti, Maurizio Masotti

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  [pdf\(877.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents searching approaches and user interface capabilities of DUO, an Online Public Access Catalogue (OPAC) designed to permit the users of three Universities of the Northeast of Italy different subject searching accesses to the co-operative multi-disciplines library catalogue database. The co-operative catalogue database is managed by one of the software systems developed under the Italian national project for library automation: the SBN project. Since the SBN data ...

16 [Gaze: EyePrint: support of document browsing with eye gaze trace](#)

 Takehiko Ohno

October 2004 **Proceedings of the 6th international conference on Multimodal interfaces**

Publisher: ACM Press

Full text available:  [pdf\(534.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current digital documents provide few traces to help user browsing. This makes document

browsing difficult, and we sometimes feel it is hard to keep track of all of the information. To overcome this problem, this paper proposes a method of creating traces on digital documents. The method, called EyePrint, generates a trace from the user's eye gaze in order to support the browsing of digital document. Traces are presented as highlighted areas on a document, which become visual cues for accessi ...

Keywords: document browsing, eyePrint, gaze-based interaction, information retrieval, readwear, reusability problem

17 An integrated approach to documentation retrieval using a spires database

 Suzanne Schluederberg

October 1988 **Proceedings of the 6th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available:  pdf(553.02 KB) Additional Information: [full citation](#), [index terms](#)



18 PERSIVAL, a system for personalized search and summarization over multimedia

 healthcare information

Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(369.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



In healthcare settings, patients need access to online information tha t can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

19 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Presto: an experimental architecture for fluid interactive document spaces

 Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury

June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available:  pdf(409.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Traditional document systems use hierarchical filing structures as the basis for organizing,

storing and retrieving documents. However, this structure is very limited in comparison with the rich and varied forms of document interaction and category management in everyday document use. Presto is a prototype document management system providing rich interaction with documents through meaningful, user-level document attributes, such as "Word file," "published paper," & ...

Keywords: attribute/value systems, direct manipulation, document management

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Relevance scale 

1 [An example-based mapping method for text categorization and retrieval](#) 

 Yiming Yang, Christopher G. ChuteJuly 1994 **ACM Transactions on Information Systems (TOIS)**, Volume 12 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.78 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A unified model for text categorization and text retrieval is introduced. We use a training set of manually categorized documents to learn word-category associations, and use these associations to predict the categories of arbitrary documents. Similarly, we use a training set of queries and their related documents to obtain empirical associations between query words and indexing terms of documents, and use these associations to predict the related documents of arbitrary queries. A Linear Le ...

Keywords: document categorization, query categorization, statistical learning of human decisions

2 [Database theory, technology and applications \(DTTA\): Simplified access to structured databases by adapting keyword search and database selection](#) 

 Mohammad Hassan, Reda Alhajj, Mick J. Ridley, Ken BarkerMarch 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(219.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a tool that enables non-technical (naive) end-users to use free-form queries in exploring distributed relational databases with simple and direct technique, in a fashion similar to using search engines to search text files on the web. This allows web designers and database developers to publish their databases for web browsers exploring. The proposed approach can be used for both Internet and Intranet application areas. Our approach depends on identifying first databases that ...

Keywords: database selection, information retrieval, keyword search, relational databases

3 [Technique for automatically correcting words in text](#) 



Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

4 Efficient passage ranking for document databases



Marcin Kaszkiel, Justin Zobel, Ron Sacks-Davis

October 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 4

Publisher: ACM Press

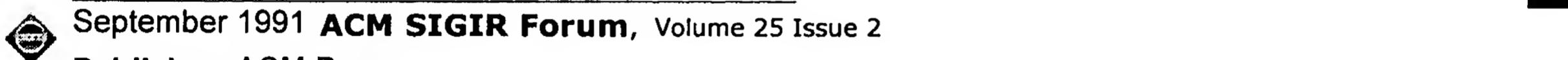
Full text available: [pdf\(328.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Queries to text collections are resolved by ranking the documents in the collection and returning the highest-scoring documents to the user. An alternative retrieval method is to rank passages, that is, short fragments of documents, a strategy that can improve effectiveness and identify relevant material in documents that are too large for users to consider as a whole. However, ranking of passages can considerably increase retrieval costs. In this article we explore alternative query evalua ...

Keywords: inverted files, passage retrieval, query evaluation, text databases, text retrieval

5 Selected IR-Related Dissertation Abstracts



September 1991 **ACM SIGIR Forum**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: [pdf\(2.75 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using BRS Information Technologies, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise spec ...

6 OAI application: Extending SDARTS: extracting metadata from web databases and interfacing with the open archives initiative



Panagiotis G. Ipeirotis, Tom Barry, Luis Gravano

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: [pdf\(303.33 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SDARTS is a protocol and toolkit designed to facilitate metasearching. SDARTS combines

two complementary existing protocols, SDLIP and STARTS, to define a uniform interface that collections should support for searching and exporting metasearch-related metadata. SDARTS also includes a toolkit with wrappers that are easily customized to make both local and remote document collections SDARTS-compliant. This paper describes two significant ways in which we have extended the SDARTS toolkit. First, we ...

Keywords: SDLIP, distributed searching, metadata, metasearching, web databases, wrapper construction

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 Selected IR-Related Dissertation Abstracts



Susanne M. Humphrey

November 1990 **ACM SIGIR Forum**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.27 MB) Additional Information: [full citation](#), [abstract](#)

The following are citations selected by title and abstract as being related to Information Retrieval (IR), resulting from a computer search, using Dialog Information Services, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). Included are UMI order number, title, author, degree, year, institution; number of pages, one or more Dissertation Abstracts International (DAI) subject descriptors chosen by the author, and abstract. Unless otherwise speci ...

9 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan

August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(281.37 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

10 Access methods for text



Chris Faloutsos

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.59 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper compares text retrieval methods intended for office systems. The operational requirements of the office environment are discussed, and retrieval methods from database systems and from information retrieval systems are examined. We classify these methods and examine the most interesting representatives of each class. Attempts to speed up retrieval with special purpose hardware are also presented, and issues such as approximate string matching and compression are discussed. A quali ...

11 [A corpus analysis approach for automatic query expansion and its extension to multiple databases](#)

 Susan Gauch, Jianying Wang, Satya Mahesh Rachakonda
July 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: [pdf\(111.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Searching online text collections can be both rewarding and frustrating. While valuable information can be found, typically many irrelevant documents are also retrieved, while many relevant ones are missed. Terminology mismatches between the user's query and document contents are a main cause of retrieval failures. Expanding a user's query with related words can improve search performances, but finding and using related words is an open problem. This research uses corpus analysis technique ...

Keywords: query expansion

12 [Data integration using similarity joins and a word-based information representation language](#)

 William W. Cohen
July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: [pdf\(312.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The integration of distributed, heterogeneous databases, such as those available on the World Wide Web, poses many problems. Here we consider the problem of integrating data from sources that lack common object identifiers. A solution to this problem is proposed for databases that contain informal, natural-language "names" for objects; most Web-based databases satisfy this requirement, since they usually present their information to the end-user through a veneer of text. We des ...

13 [Efficient and effective metasearch for text databases incorporating linkages among documents](#)

 Clement Yu, Weiwei Meng, Wensheng Wu, King-Lup Liu
May 2001 **ACM SIGMOD Record, Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: [pdf\(245.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Linkages among documents have a significant impact on the importance of documents, as it can be argued that important documents are pointed to by many documents or by other important documents. Metasearch engines can be used to facilitate ordinary users for retrieving information from multiple local sources (text databases). There is a search engine associated with each database. In a large-scale metasearch engine, the contents

of each local database is represented by a representative. Each u ...

Keywords: distributed collection, information retrieval, linkages among documents, metasearch

14 Data structures for efficient broker implementation

 Anthony Tomasic, Luis Gravano, Calvin Lue, Peter Schwarz, Laura Haas

July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available:  pdf(316.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

With the profusion of text databases on the Internet, it is becoming increasingly hard to find the most useful databases for a given query. To attack this problem, several existing and proposed systems employ brokers to direct user queries, using a local database of summary information about the available databases. This summary information must effectively distinguish relevant databases and must be compact while allowing efficient access. We offer evidence that one broker, GIOSS

Keywords: GIOSS, broker architecture, broker performance, distributed information, grid files, partitioned hashing

15 Experiences with selecting search engines using metasearch

 Daniel Dreilinger, Adele E. Howe

July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available:  pdf(428.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Search engines are among the most useful and high-profile resources on the Internet. The problem of finding information on the Internet has been replaced with the problem of knowing where search engines are, what they are designed to retrieve, and how to use them. This article describes and evaluates SavvySearch, a metasearch engine designed to intelligently select and interface with multiple remote search engines. The primary metasearch issue examined is the importance of carefully selecti ...

Keywords: WWW, information retrieval, machine learning, search engine

16 Integration of heterogeneous databases without common domains using queries

 based on textual similarity

William W. Cohen

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most databases contain "name constants" like course numbers, personal names, and place names that correspond to entities in the real world. Previous work in integration of heterogeneous databases has assumed that local name constants can be mapped into an appropriate global domain by normalization. However, in many cases, this assumption does not hold; determining if two name constants should be considered identical can require detailed knowledge of the world, the purpose of the ...

17 Research session: text data management: The TEXTURE benchmark: measuring

performance of text queries on a relational DBMS

Vuk Ercegovac, David J. DeWitt, Raghu Ramakrishnan

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  pdf(360.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a benchmark called TEXTURE (TEXT Under RElations) to measure the relative strengths and weaknesses of combining text processing with a relational workload in an RDBMS. While the well-known TREC benchmarks focus on quality, we focus on efficiency. TEXTURE is a micro-benchmark for query workloads, and considers two central text support issues that previous benchmarks did not: (1) queries with relevance ranking, rather than those that just compute all answers, and (2) a richer mix of t ...

18 Implementing SMART for minicomputers via relational processing With abstract data types

Edward A. Fox

October 1981 **Proceedings of the 1981 ACM SIGSMALL symposium on Small systems and SIGMOD workshop on Small database systems**

Publisher: ACM Press

Full text available:  pdf(948.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Designed during the 1960's as a research tool for the field of information retrieval, the SMART system has been operating on an IBM 370 since 1974. SMART is now being enhanced, redesigned, and programmed under the UNIX operating system [28] on a DEC VAX 11/780. The techniques used should allow real-time operation on smaller minicomputers in the PDP 11 family. The implementation provides for a combination of database and information retrieval operations which make it applicable to office aut ...

19 Search improvement via automatic query reformulation

Susan Gauch, John B. Smith

July 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.28 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Expert Systems, full-text information retrieval, online search assistance, query reformulation, textbases

20 Tools & techniques track: searching and IR: Downloading textual hidden web content through keyword queries

Alexandros Ntoulas, Petros Zerfos, Junghoo Cho

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(278.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An ever-increasing amount of information on the Web today is available only through search interfaces: the users have to type in a set of keywords in a search form in order to access the pages from certain Web sites. These pages are often referred to as the *Hidden Web* or the *Deep Web*. Since there are no static links to the Hidden Web pages, search engines cannot discover and index such pages and thus do not return them in the results. However, according to recent studies, the conte ...

Keywords: adaptive algorithm, deep web crawler, hidden web crawling, keyword queries, query selection

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 Hardcover, Edition: 1

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1. CHIME: customizable hyperlink insertion and maintenance engine for software engineering environments

 Devanbu, P.; Chen, Y.-F.; Gansner, E.; Muller, H.; Martin, J.;
[Software Engineering, 1999. Proceedings of the 1999 International Conference](#)

16-22 May 1999 Page(s):473 - 482

Digital Object Identifier 10.1109/ICSE.1999.841037

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2. Cadastre map assembling: a puzzle game resolution

 Viglino, J.-M.; Guigues, L.;
[Document Analysis and Recognition, 2001. Proceedings. Sixth International Conference](#)

10-13 Sept. 2001 Page(s):1235 - 1239

Digital Object Identifier 10.1109/ICDAR.2001.953979

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3. Bridging multiple user interface dimensions with augmented reality

 Schmalstieg, D.; Fuhrmann, A.; Hesina, G.;
[Augmented Reality, 2000. \(ISAR 2000\). Proceedings. IEEE and ACM International Conference](#)

5-6 Oct. 2000 Page(s):20 - 29

Digital Object Identifier 10.1109/ISAR.2000.880919

[AbstractPlus](#) | Full Text: [PDF\(1152 KB\)](#) [IEEE CNF](#)
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4. From searching to browsing through multimodal documents linking

 Mekhaldi, D.; Lalanne, D.; Ingold, R.;
[Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference](#)

29 Aug.-1 Sept. 2005 Page(s):924 - 928 Vol. 2

Digital Object Identifier 10.1109/ICDAR.2005.117

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5. Sentiment analyzer: extracting sentiments about a given topic using natural language processing techniques

 Yi, J.; Nasukawa, T.; Bunescu, R.; Niblack, W.;
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19-22 Nov. 2003 Page(s):427 - 434
Digital Object Identifier 10.1109/ICDM.2003.1250949
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- 6. **Land cover change in Puget Sound urbanizing watersheds**
Alberti, M.; Coe, S.; Weeks, R.;
[Remote Sensing and Data Fusion over Urban Areas, 2003. 2nd GRSS/ISPRS on](#)
22-23 May 2003 Page(s):33 - 37
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- 7. **A multi-level text mining method to extract biological relationships**
Palakal, M.; Stephens, M.; Mukhopadhyay, S.; Raje, R.; Rhodes, S.;
[Bioinformatics Conference, 2002. Proceedings. IEEE Computer Society](#)
14-16 Aug. 2002 Page(s):97 - 108
Digital Object Identifier 10.1109/CSB.2002.1039333
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- 8. **Sources and characteristics of Web temporal locality**
Jin, S.; Bestavros, A.;
[Modeling, Analysis and Simulation of Computer and Telecommunication System Proceedings. 8th International Symposium on](#)
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Digital Object Identifier 10.1109/MASCOT.2000.876426
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- 9. **Mixed image format environments: comparisons, tradeoffs, and issues**
Foshee, C.S.;
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Digital Object Identifier 10.1109/IMAC.1995.532931
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- 10. **GRAS, a graph-oriented database system for (software) engineering applications**
Kiesel, N.; Schurr, A.; Westfechtel, B.;
[Computer-Aided Software Engineering, 1993. CASE '93., Proceeding of the Second International Workshop on](#)
19-23 July 1993 Page(s):272 - 286
Digital Object Identifier 10.1109/CASE.1993.634829
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- 11. **Intelligent subject matter classification and retrieval**
Legakis, L.; Nugent, J.; Bowen, D.G.; Bowen, J.;
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14-17 Sept. 1993 Page(s):15 - 18 vol.1
Digital Object Identifier 10.1109/CCECE.1993.332247
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- 12. **Criterion referenced objectives: a road map for course design**
Clemons, L.;
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24-28 May 1993 Page(s):713 - 719 vol.2

Digital Object Identifier 10.1109/NAECON.1993.290852

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- 13. Automatic link generation and repair mechanism for document manager**
Shimada, T.; Futakata, A.;
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Volume 2, 6-9 Jan. 1998 Page(s):226 - 235 vol.2
Digital Object Identifier 10.1109/HICSS.1998.651704
[AbstractPlus](#) | Full Text: [PDF\(808 KB\)](#) IEEE CNF
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- 14. Block sorting and compression**
Arnavut, Z.; Magliveras, S.S.;
[Data Compression Conference, 1997. DCC '97. Proceedings](#)
25-27 March 1997 Page(s):181 - 190
Digital Object Identifier 10.1109/DCC.1997.582009
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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

1. Relationship-aware content adaptation of structured Web documents for computing

Wai Yip Lum; Lau, F.C.M.; [Parallel and Distributed Systems, 2005. Proceedings. 11th International Conference](#) Volume 1, 20-22 July 2005 Page(s):168 - 174 Vol. 1
Digital Object Identifier 10.1109/ICPADS.2005.251

Summary: Given the constrained display area of mobile devices, existing design contents would be a mismatch for these devices if there is not a mechanism to adapt the contents. In this paper, we propose a content analysis module which i....

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2. Bridging multiple user interface dimensions with augmented reality

Schmalstieg, D.; Fuhrmann, A.; Hesina, G.; [Augmented Reality, 2000. \(ISAR 2000\). Proceedings. IEEE and ACM International Conference](#) 5-6 Oct. 2000 Page(s):20 - 29
Digital Object Identifier 10.1109/ISAR.2000.880919

Summary: Studierstube is an experimental user interface system which uses the concept of augmented reality to incorporate true 3D interaction into a productivity environment. This concept is extended to bridge multiple user interface dimensions by including a...

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3. Visualization for the document space

Lin, X.; [Visualization, 1992. Visualization '92. Proceedings., IEEE Conference on](#) 19-23 Oct. 1992 Page(s):274 - 281
Digital Object Identifier 10.1109/VISUAL.1992.235198

Summary: An information retrieval framework that promotes graphical display of make documents in the computer visualizable to the searcher, is described. As such graphical displays, two simulation results of using a Kohonen feature map...

[AbstractPlus](#) | Full Text: [PDF\(628 KB\)](#) [IEEE CNF](#)
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4. Operation of Current Navigation Aids and Future Prospects

Casserly, G.; Richardson, D.; [Communications, IEEE Transactions on \[legacy, pre - 1988\]](#) Volume 21, Issue 5, May 1973 Page(s):427 - 435

Summary: This paper is designed as a survey document to be used as an overview introduction to the various concepts and levels of complexity of current and future navigation. Major emphasis will be placed on identifying those technical and operational issues.

[AbstractPlus](#) | Full Text: [PDF\(1120 KB\)](#) IEEE JNL
[Rights and Permissions](#)

5. **XML: a door to automated Web applications**

Khare, R.; Rifkin, A.;

[Internet Computing, IEEE](#)

Volume 1, Issue 4, July-Aug. 1997 Page(s):78 - 87

Digital Object Identifier 10.1109/4236.612222

Summary: In Japanese culture, your meishi conveys your place in the company, society, as well as your name, phone number, and e-mail address. That is to say, business cards matter. They convey complex metadata about the people who have them.

[AbstractPlus](#) | [References](#) | Full Text: [PDF\(484 KB\)](#) IEEE JNL
[Rights and Permissions](#)

6. **Method for representing 3D virtual origami**

Terashima, T.; Shimanuki, H.; Kato, J.; Watanabe, T.;

[Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference on](#)

29 Aug.-1 Sept. 2005 Page(s):1211 - 1215 Vol. 2

Digital Object Identifier 10.1109/ICDAR.2005.159

Summary: This paper proposes a method for representing overlapping-faces of origami in order to support beholder's recognition of its conformation. Generally, model is constructed by planar polygons corresponding to faces of origami. The

[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE CNF
[Rights and Permissions](#)

7. **InfoLead - a new concept for cruising navigation technology**

Arai, K.; Mutou, T.; Kanai, A.;

[Applications and the Internet, 2002. \(SAINT 2002\). Proceedings. 2002 Symposium on](#)

28 Jan.-1 Feb. 2002 Page(s):162 - 167

Digital Object Identifier 10.1109/SAINT.2002.994473

Summary: A new concept is described for navigating the World Wide Web efficiently. InfoLead, it assists users in finding their way to target information by helping them to search in the Web document space (WDS). Each document identified by the search engine....

[AbstractPlus](#) | Full Text: [PDF\(728 KB\)](#) IEEE CNF
[Rights and Permissions](#)

8. **A Java-based visual mining infrastructure and applications**

Hao, M.C.; Dayal, U.; Hsu, M.; Baker, J.; D'Eletto, R.;

[Information Visualization, 1999. \(Info Vis '99\) Proceedings. 1999 IEEE Symposium on](#)

24-29 Oct. 1999 Page(s):124 - 127, 153

Digital Object Identifier 10.1109/INFVIS.1999.801867

Summary: Many real-world KDD (Knowledge Discovery & Data Mining) applications involve the navigation of large volumes of information on the web, such as, Internet resources and telecom phone switches. Quite often users feel lost, confused and....

[AbstractPlus](#) | Full Text: [PDF\(124 KB\)](#) IEEE CNF
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9. **Turbocharging MATLAB^R for the classroom**

Kmiecik, C.; Hartnett, R.;

[Frontiers in Education Conference, 1996. FIE '96. 26th Annual Conference., Proceedings](#)

Volume 2, 6-9 Nov. 1996 Page(s):620 - 623 vol.2

Digital Object Identifier 10.1109/FIE.1996.573030

Summary: Many of us have used MATLAB, or similar software packages, as a tool to demonstrate concepts and relationships using simple text and graphics. Though simple text/graphics help bridge the gap between a maze of equations and figures, they do not always provide the best way to teach and learn.

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10. Towards rich information landscapes for visualising structured Web spaces

Andrews, K.; Pichler, M.; Wolf, P.;
Information Visualization '96, Proceedings IEEE Symposium on
28-29 Oct. 1996 Page(s):62 - 63, 121
Digital Object Identifier 10.1109/INFVIS.1996.559218
Summary: The Harmony browser for the Hyper-G Web server utilises Hyper-G model to provide a number of tightly-coupled, two- and three-dimensional visual navigational facilities. In particular the Harmony Information Landscape visualisation
[AbstractPlus](#) | Full Text: [PDF\(788 KB\)](#) | [IEEE CNF](#)
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11. Vehicle adaptation aided by spreadsheet graphics

Seaman, R.L.;
Engineering in Medicine and Biology Society, 1988. Proceedings of the Annual Conference of the IEEE
4-7 Nov. 1988 Page(s):1655 - 1656 vol.4
Digital Object Identifier 10.1109/IEMBS.1988.94841
Summary: An electronic spreadsheet method for nontechnical users has been recommended for recommendation of driving devices and van modifications. Macroprograms process through menus and process and display the data. Three orthogonal views of vehicle

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12. Type design with flexible constrained font characteristics

Hussain, F.; Zalik, B.;
Document Image Processing and Multimedia (Ref. No. 1999/041), IEE Colloquium
25 March 1999 Page(s):6/1 - 614
Summary: Modern computer output devices work with finite resolutions to display images and artefacts, including those used to model character outlines. The outline itself is frequently achieved by means of a spline description, connected in.....

[AbstractPlus](#) | Full Text: [PDF\(732 KB\)](#) | [IEE CNF](#)

13. An information retrieval common service based on H-PCTE

Kelter, U.;
Software Engineering Environments Conference, 1993. Proceedings
7-9 July 1993 Page(s):101 - 108
Digital Object Identifier 10.1109/SEE.1993.388417
Summary: Information retrieval (IR) problems occur frequently in software development environments. In sorts of software documents can be involved. In software development environments based on file systems, IR problems are usually solved using tools which search for

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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 1. The data alchemistsSavage, P.R.;
[Spectrum, IEEE](#)

Volume 40, Issue 7, July 2003 Page(s):38 - 39

Digital Object Identifier 10.1109/MSPEC.2003.1209611

Summary: XML, the Extensible Mark-up Language will, in the next few years, the code that defines how a document looks when viewed by a Web browser. ; structure as well as looks to a document. While HTML can format things like he[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) [IEEE JNL](#)
[Rights and Permissions](#) **2. Semantic relationship and identification of music**

Seifert, F.; Benn, W.;

[Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third Inter Conference on](#)

15-17 Sept. 2003 Page(s):85 - 92

Digital Object Identifier 10.1109/WDM.2003.1233879

Summary: Automatic search engines for musical documents mostly provide a relevant and irrelevant hits including multiple appearances of the same document underlying information-processing methods that are based on metadata or sim[AbstractPlus](#) | Full Text: [PDF\(1176 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#) **3. Ranking complex relationships on the semantic Web**Aleman-Meza, B.; Halaschek-Weiner, C.; Arpinar, I.B.; Cartic Ramakrishnan; S [Internet Computing, IEEE](#)

Volume 9, Issue 3, May-June 2005 Page(s):37 - 44

Digital Object Identifier 10.1109/MIC.2005.63

Summary: Industry and academia are both focusing their attention on information semantic metadata extracted from the Web, and it is increasingly possible to a metadata to discover interesting relationships. However, just as document[AbstractPlus](#) | Full Text: [PDF\(512 KB\)](#) [IEEE JNL](#)
[Rights and Permissions](#) **4. XR-tree: indexing XML data for efficient structural joins**

Haifeng Jiang; Hongjun Lu; Wei Wang; Ooi, B.C.;

[Data Engineering, 2003. Proceedings. 19th International Conference on](#)

5-8 March 2003 Page(s):253 - 264

Summary: XML documents are typically queried with a combination of value s

structure search. While querying by values can leverage traditional database techniques, querying by structural relationships requires more complex logic for evaluating structural relationship, specifically parent-child or ancestor-descendant.

[AbstractPlus](#) | Full Text: [PDF\(865 KB\)](#) IEEE CNF
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- 5. Refining the extraction of relevant documents from biomedical literature corpus for pathway text mining**
Harte, H.; Lu, Y.; Osborn, S.; Dehoney, D.; Chin, D.;
[Bioinformatics Conference, 2003. CSB 2003. Proceedings of the 2003 IEEE](#)
11-14 Aug. 2003 Page(s):644 - 645
Digital Object Identifier 10.1109/CSB.2003.1227432
Summary: For biologists to keep up with developments in their field or related disciplines, it is desirable to more efficiently read and interpret a rapidly growing literature. Identifying proteins or genes and their interactions can facilitate the mining process....
[AbstractPlus](#) | Full Text: [PDF\(369 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- 6. A term-based algorithm for hierarchical clustering of Web documents**
Schenker, A.; Last, M.; Kandel, A.;
[IFSA World Congress and 20th NAFIPS International Conference, 2001. Joint](#)
25-28 July 2001 Page(s):3076 - 3081 vol.5
Digital Object Identifier 10.1109/NAFIPS.2001.943719
Summary: In this paper we introduce the novel class hierarchy construction algorithm in order to create hierarchical clusterings of Web documents. Unlike most clustering algorithms, CHCA operates on nominal data (the words occurring in each document) and...
[AbstractPlus](#) | Full Text: [PDF\(512 KB\)](#) IEEE CNF
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- 7. Visualization for the document space**
Lin, X.;
[Visualization, 1992. Visualization '92. Proceedings., IEEE Conference on](#)
19-23 Oct. 1992 Page(s):274 - 281
Digital Object Identifier 10.1109/VISUAL.1992.235198
Summary: An information retrieval framework that promotes graphical displays to make documents in the computer visualizable to the searcher, is described. As such graphical displays, two simulation results of using a Kohonen feature map are shown....
[AbstractPlus](#) | Full Text: [PDF\(628 KB\)](#) IEEE CNF
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- 8. Retrieval of document images using layout knowledge**
Herrmann, P.; Schlageter, G.;
[Document Analysis and Recognition, 1993., Proceedings of the Second International Conference on](#)
20-22 Oct. 1993 Page(s):537 - 540
Digital Object Identifier 10.1109/ICDAR.1993.395678
Summary: Document image archives are increasingly used to replace paper archives for filing. Usually those archives are combined with a database management system for retrieval to search the documents. An additional retrieval method to search a...
[AbstractPlus](#) | Full Text: [PDF\(324 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- 9. Layout recognition of multi-kinds of table-form documents**
Watanabe, T.; Qin Luo; Sugie, N.;
[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)
Volume 17, Issue 4, April 1995 Page(s):432 - 445
Digital Object Identifier 10.1109/34.385976
Summary: Many approaches have reported that knowledge-based layout recognition are very successful in classifying the meaningful data from document images and tables. However, these approaches are applicable to only the same kind of documents....
[AbstractPlus](#) | References | Full Text: [PDF\(1072 KB\)](#) IEEE JNL

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10. Two-handed volumetric document corpus management
Ebert, D.S.; Zwa, A.; Miller, E.L.; Shaw, C.D.; Roberts, D.A.;
Computer Graphics and Applications, IEEE
Volume 17, Issue 4, July-Aug. 1997 Page(s):60 - 62
Digital Object Identifier 10.1109/38.595271
Summary: To find a document in the sea of information, you must embark on usually computer-aided. In the traditional information retrieval model, the final ! and collect a small number of documents to read in detail. In thi.....
[AbstractPlus](#) | [References](#) | [Full Text: PDF\(120 KB\)](#) | [IEEE JNL](#)
[Rights and Permissions](#)

11. Semantic abstractions in the multimedia domain
Megalou, E.; Hadzilacos, T.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 15, Issue 1, Jan.-Feb. 2003 Page(s):136 - 160
Digital Object Identifier 10.1109/TKDE.2003.1161587
Summary: Information searching by exactly matching content is traditionally a machine searching; this is not, however, how human memory works and is rare advanced retrieval tasks in any domain-multimedia in particular, where.....
[AbstractPlus](#) | [References](#) | [Full Text: PDF\(3707 KB\)](#) | [IEEE JNL](#)
[Rights and Permissions](#)

12. An efficient algorithm to compute differences between structured documents
Kyong-Ho Lee; Yoon-Chul Choy; Sung-Bae Cho;
Knowledge and Data Engineering, IEEE Transactions on
Volume 16, Issue 8, Aug. 2004 Page(s):965 - 979
Digital Object Identifier 10.1109/TKDE.2004.19
Summary: SGML/XML are having a profound impact on data modeling and present an efficient algorithm to compute differences between old and new versions of SGML/XML document. The difference between the two versions can be concise.....
[AbstractPlus](#) | [References](#) | [Full Text: PDF\(1304 KB\)](#) | [IEEE JNL](#)
[Rights and Permissions](#)

13. Visualization support for interactive query refinement
Hoeber, O.; Xue-Dong Yang; Yiyu Yao;
Web Intelligence, 2005. Proceedings. The 2005 IEEE/WIC/ACM International Conference on
19-22 Sept. 2005 Page(s):657 - 665
Digital Object Identifier 10.1109/WI.2005.158
Summary: It has been well documented that Web searchers have difficulties to fulfill their information needs. In this work, we use a concept knowledge base of the ACM computing classification system to generate a query space that
[AbstractPlus](#) | [Full Text: PDF\(1272 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)

14. From searching to browsing through multimodal documents linking
Mekhaldi, D.; Lalanne, D.; Ingold, R.;
Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference on
29 Aug.-1 Sept. 2005 Page(s):924 - 928 Vol. 2
Digital Object Identifier 10.1109/ICDAR.2005.117
Summary: Relationships that link static documents discussed during meetings and corresponding speech transcripts can be of various kinds. The most important links, quotations and references are presented in this paper. Thematic links are.....
[AbstractPlus](#) | [Full Text: PDF\(232 KB\)](#) | [IEEE CNF](#)
[Rights and Permissions](#)

15. Analysis of Topics and Relevant Documents for Navigational Retrieval of
Oyama, K.; Ishikawa, H.; Aizawa, A.;

[Web Information Retrieval and Integration, 2005. WIRI '05. Proceedings. International Workshop on Challenges in](#)

08-09 April 2005 Page(s):157 - 163

Digital Object Identifier 10.1109/WIRI.2005.9

Summary: An investigation into relationships among search methods, topic types and relevant Web pages was conducted using the "NTCIR-4 WEB Test Collection - Retrieval", which was built for evaluating the retrieval effectiveness of Web search engines.

[AbstractPlus](#) | Full Text: [PDF\(256 KB\)](#) IEEE CNF
[Rights and Permissions](#)

16. Building A Document Class Hierarchy for Obtaining More Proper Bibliographical Information from the Web

Daling Wang; Ge Yu; Minghan Hu; Yubin Bao; Meng Zhang;

[Web Information Retrieval and Integration, 2005. WIRI '05. Proceedings. International Workshop on Challenges in](#)

08-09 April 2005 Page(s):214 - 219

Digital Object Identifier 10.1109/WIRI.2005.13

Summary: In order for researchers in scientific and technological fields to find information resources on Web, an auxiliary search structure is proposed, which builds a document class hierarchy of documents built based on the keywords of the documents. To cover the needs of users, the system provides a search function.

[AbstractPlus](#) | Full Text: [PDF\(224 KB\)](#) IEEE CNF
[Rights and Permissions](#)

17. Enhancing 3D file search with landscapes and personal histories: exploring the possibilities of TerraSearch+

Faiola, A.; Groth, D.P.;

[Information Visualisation, 2005. Proceedings. Ninth International Conference on](#)

6-8 July 2005 Page(s):613 - 618

Digital Object Identifier 10.1109/IV.2005.47

Summary: Most users today have difficulty locating files due to memory, i.e., they do not remember where they placed the document in the first place. This paper proposes a new search method that can recreate the personal history of where they placed the document in the first place. The system provides the standard file search functions according to human needs.

[AbstractPlus](#) | Full Text: [PDF\(368 KB\)](#) IEEE CNF
[Rights and Permissions](#)

18. Structural learning of Bayesian networks from complete data using the s

documents

Djan-Sampson, P.O.; Sahin, F.;

[Systems, Man and Cybernetics, 2004 IEEE International Conference on](#)

Volume 4, 10-13 Oct. 2004 Page(s):3619 - 3624 vol.4

Digital Object Identifier 10.1109/ICSMC.2004.1400904

Summary: Bayesian networks are directed acyclic graphs that model the dependencies between variables of interest. These networks are characterized by the structure of the network and the conditional probabilities that specify the dependencies that exist between the variables.

[AbstractPlus](#) | Full Text: [PDF\(718 KB\)](#) IEEE CNF
[Rights and Permissions](#)

19. Multimedia semantic indexing using model vectors

Smith, J.R.; Naphade, M.; Natsev, A.;

[Multimedia and Expo, 2003. ICME '03. Proceedings. 2003 International Conference on](#)

Volume 2, 6-9 July 2003 Page(s):II - 445-8 vol.2

Digital Object Identifier 10.1109/ICME.2003.1221649

Summary: In this paper we propose a novel method for multimedia semantic indexing using model vectors. Model vectors provide a semantic signature for multimedia documents by capturing the detection of concepts broadly across a lexicon using a set of index terms.

[AbstractPlus](#) | Full Text: [PDF\(354 KB\)](#) IEEE CNF
[Rights and Permissions](#)

20.

Supporting ancillary values from user defined functions in Oracle

Ravi Murthy; Seema Sundara; Nipun Agarwal; Hu, Y.; Chorma, T.; Jagannath, S.

Data Engineering, 2003. Proceedings. 19th International Conference on
5-8 March 2003 Page(s):151 - 162

Summary: Most commercial SQL database systems support user-defined functions used in WHERE clause filters, SELECT list items, or in sorting/grouping clauses. User-defined functions are used as inexact search filters and then the filtered results are used in...

[AbstractPlus](#) | Full Text: [PDF\(610 KB\)](#) IEEE CNF
[Rights and Permissions](#)

21. X-Diff: an effective change detection algorithm for XML documents

Wang, Y.; DeWitt, D.J.; Cai, J.-Y.;

Data Engineering, 2003. Proceedings. 19th International Conference on
5-8 March 2003 Page(s):519 - 530

Summary: XML has become the de facto standard format for Web publishing and transportation. Since online information changes frequently, being able to quickly detect changes in XML documents is important to Internet query systems, search engines, and...

[AbstractPlus](#) | Full Text: [PDF\(553 KB\)](#) IEEE CNF
[Rights and Permissions](#)

22. Syntactic similarity of Web documents

Pereira, A.R., Jr.; Ziviani, N.;

Web Congress, 2003. Proceedings. First Latin American
10-12 Nov. 2003 Page(s):194 - 200

Summary: We present and compare two methods for evaluating the syntactic similarity between documents. The first method uses the Patricia tree, constructed from the document, and the similarity is computed searching the text of each candidate...

[AbstractPlus](#) | Full Text: [PDF\(302 KB\)](#) IEEE CNF
[Rights and Permissions](#)

23. Improving hybrid MDS with pivot-based searching

Morrison, A.; Chalmers, M.;

Information Visualization, 2003. INFOVIS 2003. IEEE Symposium on
19-21 Oct. 2003 Page(s):85 - 90

Summary: An algorithm is presented for the visualization of multidimensional data sets building on a hybrid model introduced at Info Vis 2002. The most computationally expensive part of the original model involved performing a nearest-neighbour search for...

[AbstractPlus](#) | Full Text: [PDF\(501 KB\)](#) IEEE CNF
[Rights and Permissions](#)

24. An empirical study of an ER-model inspection meeting

Rombach, C.D.; Kude, O.; Aurum, A.; Jeffery, R.; Wohlin, C.;

Euromicro Conference, 2003. Proceedings. 29th
1-6 Sept. 2003 Page(s):308 - 315

Summary: A great benefit of software inspections is that they can be applied at any stage of the software development life cycle. We document a large-scale experiment during an entity relationship (ER) model inspection meeting. The experiment...

[AbstractPlus](#) | Full Text: [PDF\(238 KB\)](#) IEEE CNF
[Rights and Permissions](#)

25. InfoLead - a new concept for cruising navigation technology

Arai, K.; Mutou, T.; Kanai, A.;

Applications and the Internet, 2002. (SAINT 2002). Proceedings. 2002 Symposium on
28 Jan.-1 Feb. 2002 Page(s):162 - 167

Digital Object Identifier 10.1109/SAINT.2002.994473

Summary: A new concept is described for navigating the World Wide Web efficiently. InfoLead, it assists users in finding their way to target information by helping them to search the Web document space (WDS). Each document identified by the search engine...

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Hardcover, Edition: 1[View All 1 Result\(s\)](#)

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

- 1. **Fast planning algorithm based on stack of action sets and high efficiency**
*Ying-Hua Lu; Gang Hou; Wen-Xiang Gu;
Machine Learning and Cybernetics, 2005. Proceedings of 2005 International C
Volume 3, 18-21 Aug. 2005 Page(s):1423 - 1427 Vol. 3
Digital Object Identifier 10.1109/ICMLC.2005.1527167
Summary: Based on the study and analysis of the traditional planning graph a
this paper presents a novel planning graph, named high efficiency planning gra
directed, leveled graph with three kinds of nodes and four kinds of edges w.....
AbstractPlus | Full Text: [PDF\(272 KB\)](#) [IEEE CNF](#)
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- 2. **B-1B Doppler error compensation based on flight data analysis**
*Molner, D.O.; Patterson, J.;
Aerospace and Electronics Conference, 1989. NAECON 1989. Proceedings o
National
22-26 May 1989 Page(s):1753 - 1757 vol.4
Digital Object Identifier 10.1109/NAECON.1989.40452
Summary: Numerous B-1B flight tests with good tracking reference data have
new level of Doppler error analysis. The analysis involves the fitting of the Dop
aircraft dynamics data. Reference velocity truth is provided by the
AbstractPlus | Full Text: [PDF\(224 KB\)](#) [IEEE CNF](#)
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- 3. **Achieving Privacy in Trust Negotiations with an Ontology-Based Approach**
*Squicciarini, A.C.; Bertino, E.; Ferrari, E.; Ray, I.;
Dependable and Secure Computing, IEEE Transactions on
Volume 3, Issue 1, Jan.-March 2006 Page(s):13 - 30
Digital Object Identifier 10.1109/TDSC.2006.3
Summary: The increasing use of Internet in a variety of distributed multiparty i
transactions with strong real-time requirements has pushed the search for solu
problem of attribute-based digital interactions. A promising solution to.....
AbstractPlus | Full Text: [PDF\(1760 KB\)](#) [IEEE JNL](#)
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- 4. **Genetic algorithms in engineering electromagnetics**
*Johnson, J.M.; Rahmat-Samii, V.;
Antennas and Propagation Magazine, IEEE
Volume 39, Issue 4, Aug. 1997 Page(s):7 - 21
Digital Object Identifier 10.1109/74.632992*

Summary: This paper presents a tutorial and overview of genetic algorithms for optimization. Genetic-algorithm (GA) optimizers are robust, stochastic searchers based on the concepts of natural selection and evolution. The relationship between GAs and other optimization methods is discussed.

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- 5. From searching to browsing through multimodal documents linking**
Mekhaldi, D.; Lalanne, D.; Ingold, R.;
[Document Analysis and Recognition, 2005. Proceedings. Eighth International Conference on](#)
29 Aug.-1 Sept. 2005 Page(s):924 - 928 Vol. 2
Digital Object Identifier 10.1109/ICDAR.2005.117
Summary: Relationships that link static documents discussed during meetings and their corresponding speech transcripts can be of various kinds. The most important links, quotations and references are presented in this paper. Thematic links are also discussed.
[AbstractPlus](#) | Full Text: [PDF\(232 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- 6. Detection and Tracking of Moving Objects from a Moving Platform in Presence of Parallax**
Jinman Kang; Cohen, I.; Gerard; Chang Yuan;
[Computer Vision, 2005. ICCV 2005. Tenth IEEE International Conference on](#)
Volume 1, 17-20 Oct. 2005 Page(s):10 - 17
Digital Object Identifier 10.1109/ICCV.2005.72
Summary: We present a novel approach to detect and track independently moving objects in a 3D scene observed by a moving camera in the presence of strong parallax. Detected pixels are classified into independently moving regions or parallax regions by using a two-stage classification scheme.
[AbstractPlus](#) | Full Text: [PDF\(512 KB\)](#) IEEE CNF
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- 7. Practical issues for building a product ontology system**
Ig-hoon Lee; Suekyung Lee; Taehee Lee; Sang-goo Lee; Dongkyu Kim; Jonghwan Kim; Hyunja Lee; Junho Shim;
[Data Engineering Issues in E-Commerce, 2005. Proceedings. International Workshop on](#)
9 April 2005 Page(s):16 - 25
Digital Object Identifier 10.1109/DEEC.2005.17
Summary: A base of clearly defined product information is a key foundation for building an e-commerce system. The manipulation and exchange of semantically enriched and precise product information can enhance the quality of an e-commerce system and offer a high level of user satisfaction.
[AbstractPlus](#) | Full Text: [PDF\(728 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- 8. Inverse image warping without searching**
Tang Yang; Wu Hui-zhong; Xiao Fu; Xiao Liang;
[Control, Automation, Robotics and Vision Conference, 2004. ICARCV 2004 8th International Conference on](#)
Volume 1, 6-9 Dec. 2004 Page(s):386 - 390 Vol. 1
Digital Object Identifier 10.1109/ICARCV.2004.1468856
Summary: For the depth information of desired view is unknown, a per-pixel search is often inevitable in methods of inverse image warping. A novel approach is proposed in this paper called "cross-segment algorithm (CSA)". Different from other existing methods, the CSA does not need to search for each pixel.
[AbstractPlus](#) | Full Text: [PDF\(262 KB\)](#) IEEE CNF
[Rights and Permissions](#)
- 9. Development of a visualizing Web search system**
Sunaoka, N.; Sato, Y.; Yokoyama, S.; Miyadera, Y.;
[Information Visualisation, 2004. IV 2004. Proceedings. Eighth International Conference on](#)
14-16 July 2004 Page(s):911 - 919
Digital Object Identifier 10.1109/IV.2004.1320250
Summary: Existing Web search systems have the following problems. They cannot find contents that are related to the keywords but do not match to them. And the relationship between contents is unknown. This makes continuous navigation between contents difficult.

[AbstractPlus](#) | Full Text: [PDF\(1411 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- 10. The efficacy of using Object Oriented technologies to build collaborative healthcare and medical information systems**
Dwivedi, A.; Bali, R.K.; James, A.E.; Naguib, R.N.G.;
[Electrical and Computer Engineering, 2002. IEEE CCECE 2002. Canadian Co](#)
Volume 2, 12-15 May 2002 Page(s):1188 - 1193 vol.2
Digital Object Identifier 10.1109/CCECE.2002.1013117
Summary: Advances in information and communication technologies (ICT), to search for effective and efficient ways to deliver healthcare, have resulted in the new health delivery systems such as Community Health Information Networks
[AbstractPlus](#) | Full Text: [PDF\(750 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- 11. Multiobjective optimization of current waveforms for switched reluctance genetic algorithm**
Jian-Xin Xu; Sanjib Kumar Panda; Qing Zheng;
[Evolutionary Computation, 2002. CEC '02. Proceedings of the 2002 Congress](#)
Volume 2, 12-17 May 2002 Page(s):1860 - 1865
Digital Object Identifier 10.1109/CEC.2002.1004526
Summary: In this paper a genetic algorithm (GA) is employed to determine the waveforms for switched reluctance motors (SRM) through generating appropriate phase torques for a given desired torque using the torque sharing function (TS)
[AbstractPlus](#) | Full Text: [PDF\(573 KB\)](#) IEEE CNF
[Rights and Permissions](#)

- 12. Intelligent subject matter classification and retrieval**
Legakis, L.; Nugent, J.; Bowen, D.G.; Bowen, J.;
[Electrical and Computer Engineering, 1993. Canadian Conference on](#)
14-17 Sept. 1993 Page(s):15 - 18 vol.1
Digital Object Identifier 10.1109/CCECE.1993.332247
Summary: This paper describes a research project entitled Expert Patent Search (EPSA) under contract with Consumer and Corporate Affairs Canada. The project aims at developing an intelligent system for patent classification and retrieval. The system will automatically extract relevant information from patent documents and classify them according to their subject matter. This will facilitate the search process and reduce the time required to find relevant patents. The system will also provide users with a better understanding of the patent literature by providing them with a classification scheme that is based on the content of the patent documents.
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- 13. Fractal image compression and recurrent iterated function systems**
Hart, J.C.;
[Computer Graphics and Applications, IEEE](#)
Volume 16, Issue 4, July 1996 Page(s):25 - 33
Digital Object Identifier 10.1109/38.511849
Summary: Linear fractal models such as the iterated function system (IFS), recursive IFS (RIFS), and Lindenmeyer system (L-system) concisely describe complex objects. These models hold much promise in computer graphics as geometric primitives.
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1. The BT intranet: information by design

Norris, M.; Muschamp, P.; Sim, S.;
[Computer](#)
Volume 32, Issue 3, March 1999 Page(s):59 - 66
Digital Object Identifier 10.1109/2.751330

Summary: British Telecom's intranet hosts an array of information products that part of the way its employees do business. The article presents a glimpse of how concepts like media engineering to develop usable and maintainable informa...

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2. A study of the vocational teachers' knowledge management platform

Rong-Jui Fong; Hung-Jen Yang; Cheng-fu Chiang;
[Computers in Education, 2002. Proceedings. International Conference on](#)
3-6 Dec. 2002 Page(s):856 - 857 vol.2
Summary: The basis of the research is Ikujiro Nonaka and Hirotaka Takeuchi's management theory so as to develop junior high vocational teachers' knowledge platform and to provide the practical training community the mechanism for the
[AbstractPlus](#) | [Full Text: PDF\(210 KB\)](#) | [IEEE CNF](#)
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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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<and> (relationship<in>metadata)

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(document<in>metadata)

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